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L1          STRUCTURE UPLOADED
            E BENZODIAZEPINE/CN
            SET EXPAND CONTINUOUS
L2          1 S E3

            FILE 'CAPLUS' ENTERED AT 20:37:59 ON 01 DEC 2011
            E RESPIRATORY SYNCYTIAL VIRUS/CT
            E E15+ALL/CT
L3          163493 S E26-E32,E35
            E COMMON COLD/CT
            E E38+ALL
L4          33273 S E50-E52,E62-64,E66-E68
            E RHINOVIRUS/CT
            E E71+ALL/CT
L5          2062 S E87,E93-E199

            FILE 'REGISTRY' ENTERED AT 20:40:15 ON 01 DEC 2011
L6          50 S L1 SSS SAM
            E BENZO(1,2) DIAZEPINE/CN
            E BENZO-1,2-DIAZEPINE/CN

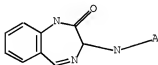
            FILE 'CAPLUS' ENTERED AT 20:42:49 ON 01 DEC 2011
L7          29 S (L3 OR L4 OR L5) AND L2
L8          13 S L7 AND (PY<=2004 OR PRY<=2004 OR AY<=2004)

            FILE 'REGISTRY' ENTERED AT 21:03:37 ON 01 DEC 2011
L9          STRUCTURE UPLOADED
L10         STRUCTURE UPLOADED

L10         STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10         STR

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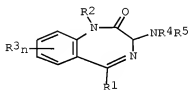
L11         50 S L10 SSS SAM
L12         7855 S L10 SSS FULL

            FILE 'CAPLUS' ENTERED AT 21:05:09 ON 01 DEC 2011
            E ANTIVIRAL AGENTS/CT
            E E226+ALL/CT
L13         96501 S E241,E245,E247-E248,E251,E298,E300
            E VIRUS REPLICATION/CT
            E E317+ALL/CT

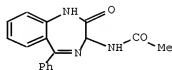
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L14 11712 S E329
 L15 261893 S (L3 OR L4 OR L5 OR L13 OR L14)
 L16 26 S L12 AND L15
 L17 12 S L16 AND (AY<=2004 OR PRY<=2004 OR PY<=2004)

L17 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2011 ACS on STN
 GI



I



II

AB Benzodiazepines (shown as I; variables defined below; e.g. II) and pharmaceutically acceptable salts thereof, are active against respiratory syncytial virus (RSV). For I: R1 = Cl-6 alkyl, aryl or heteroaryl; R2 = H or Cl-6 alkyl; each R3 = halogen, hydroxy, Cl-6 alkyl, Cl-6 alkoxy, Cl-6 alkylthio, Cl-6 haloalkyl, Cl-6 haloalkoxy, amino, mono(Cl-6 alkyl)amino, di(Cl-6 alkyl)amino, nitro, cyano, -CO2RI, -CONRIRII, -NH-CO-R1, -S(O)R1, -S(O)2R1, -NH-S(O)2R1, -S(O)NRIRII or -S(O)2NRIRII wherein each RI and RII = H or Cl-6 alkyl; n = 0-3; R4 = H or Cl-6 alkyl; R6 = Cl-6 alkyl, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(Cl-6 alkyl)-, heteroaryl-(Cl-6 alkyl)-, carbocyclyl-(Cl-6 alkyl)-, heterocyclyl-(Cl-6 alkyl)-, aryl-C(O)-C(O)-, heteroaryl-C(O)-C(O)-, carbocyclyl-C(O)-C(O)-, heterocyclyl-C(O)-C(O)- or -XR6. X = -CO-, -S(O)- or -S(O)2-; and R6 = Cl-6 alkyl, hydroxy, Cl-6 alkoxy, Cl-6 alkylthio, aryl, heteroaryl, carbocyclyl, heterocyclyl, aryl-(Cl-6 alkyl)-, heteroaryl-(Cl-6 alkyl)-, carbocyclyl-(Cl-6 alkyl)-, heterocyclyl-(Cl-6 alkyl)-, aryl-(Cl-6 hydroxyalkyl)-, heteroaryl-(Cl-6 hydroxyalkyl)-, carbocyclyl-(Cl-6 hydroxyalkyl)-, heterocyclyl-(Cl-6 hydroxyalkyl)-, aryl-(Cl-6 alkyl)-O-, heteroaryl-(Cl-6 alkyl)-O-, carbocyclyl-(Cl-6 alkyl)-O-, heterocyclyl-(Cl-6 alkyl)-O- or -NRIRII wherein each RI and RII = H, Cl-6 alkyl, carbocyclyl, heterocyclyl, aryl, heteroaryl, aryl-(Cl-6 alkyl)-, heteroaryl-(Cl-6 alkyl)-, carbocyclyl-(Cl-6 alkyl)- or heterocyclyl-(Cl-6 alkyl)-. Although the methods of preparation are not claimed, approx. 80 example preps. are included. For example, II was prepared by N-acetylation of 3-amino-5-phenyl-1,3-dihydrobenzo[e][1,4]diazepin-2-one; the reactant was prepared by deprotection of (2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)carbamic acid benzyl ester, which was prepared by cyclization of (2-aminophenyl)phenylmethanone with (benzotriazol-1-yl)(benzyloxycarbonylamino)acetic acid, which was prepared from glyoxylic acid monohydrate, benzotriazole and benzyl carbamate in toluene. Values for inhibition of RSV and toxicity were determined for >100 examples of I.

ACCESSION NUMBER: 2004:267311 CAPLUS Full-text
 DOCUMENT NUMBER: 140:287417
 TITLE: Preparation of aminobenzodiazepinones and

INVENTOR(S):

pharmaceutical compositions containing them for use
against respiratory syncytial virus
Carter, Malcolm; Henderson, Elisa; Kelsey, Richard;
Wilson, Lara; Chambers, Phil; Taylor, Debra; Tyms,
Stan

PATENT ASSIGNEE(S):

Arrow Therapeutics Limited, UK

SOURCE:

PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004026843	A1	20040401	WO 2003-GB4050	20030922
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